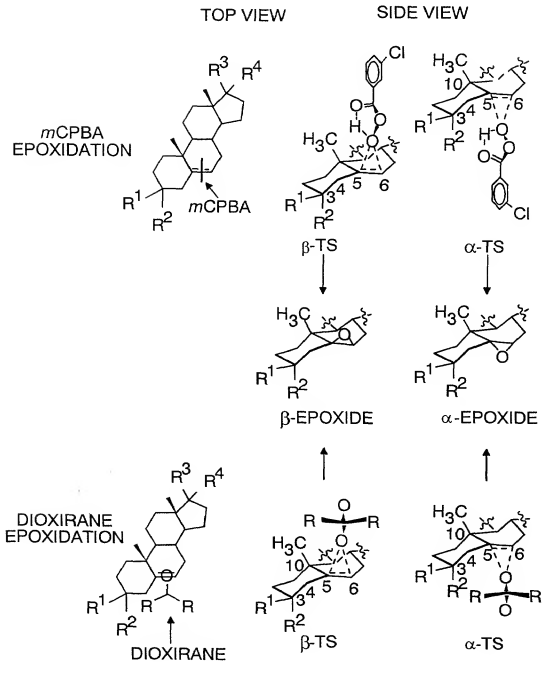
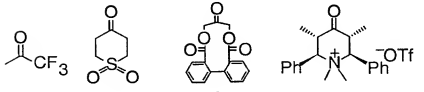


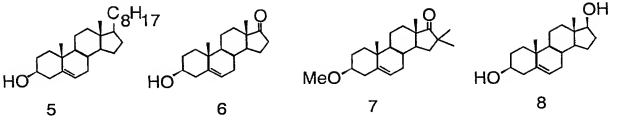
Fig. 1

KETONES:

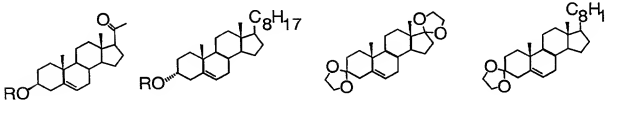


1 2 3 4

STEROIDS:



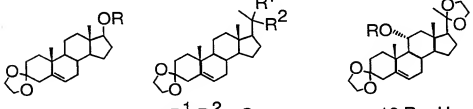
5 6 7 8



9 R = H
10 R = MOM

11 R = H
12 R = Ac

13 14



15 R = H
16 R = Ac

17 R^1, R^2 = O
18 R^1, R^2 = OCH_2CH_2O

19 R = H
20 R = Ac

Fig. 2

Fig. 3

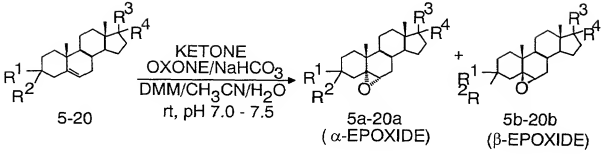


Fig. 4

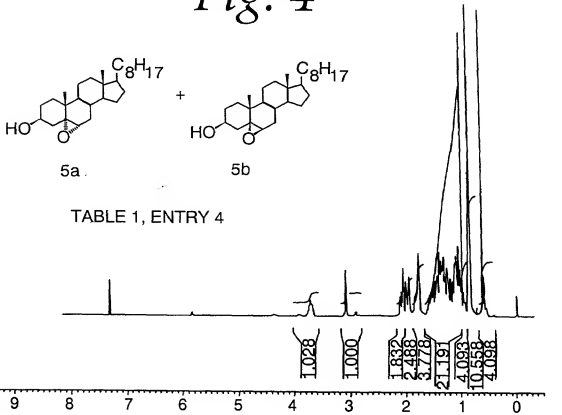


Fig. 5

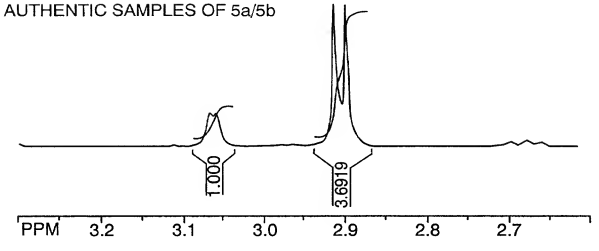


Fig. 6

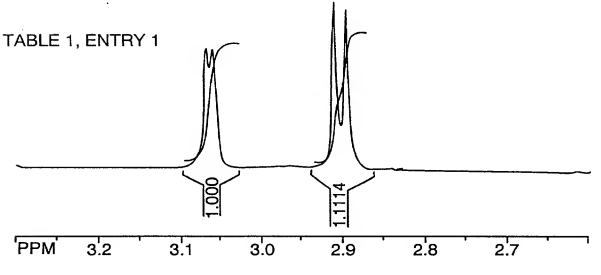


Fig. 7

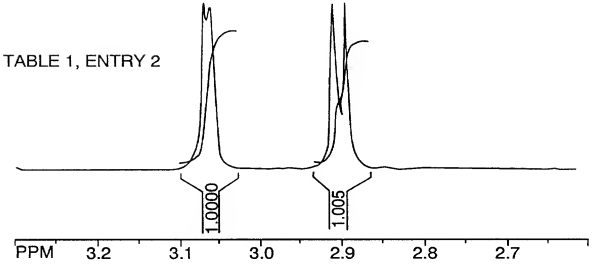


Fig. 8

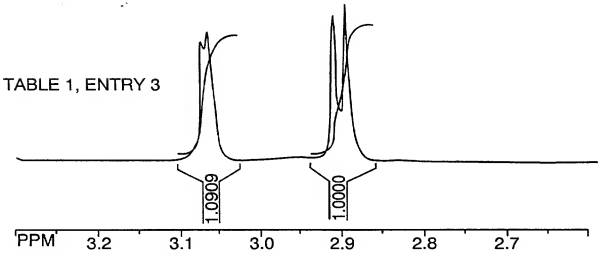


Fig. 9

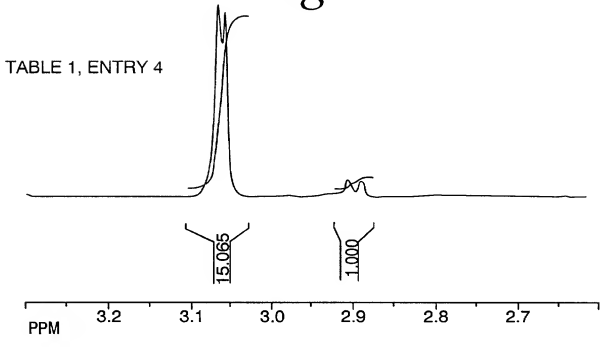


Fig. 10

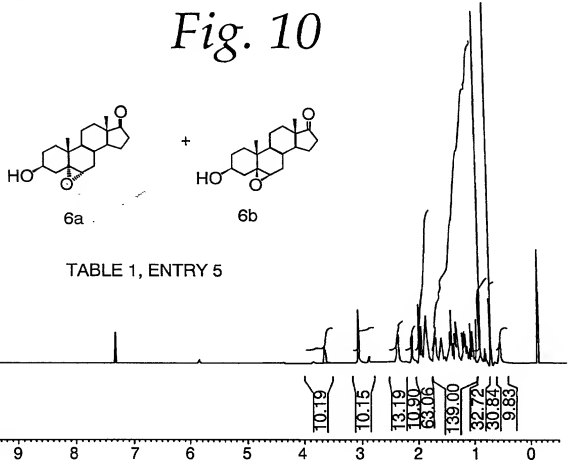


Fig. 11

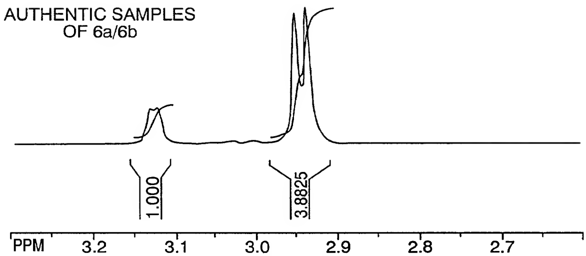


Fig. 12

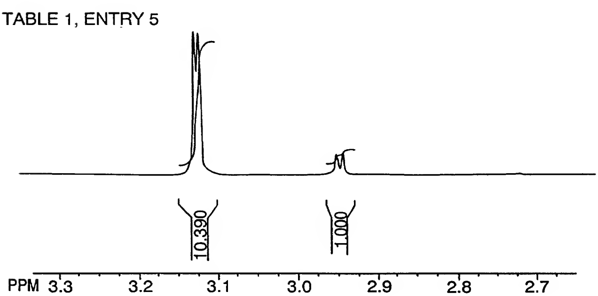


Fig. 13

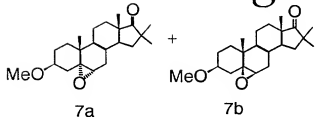


TABLE 1, ENTRY 6

Fig. 14

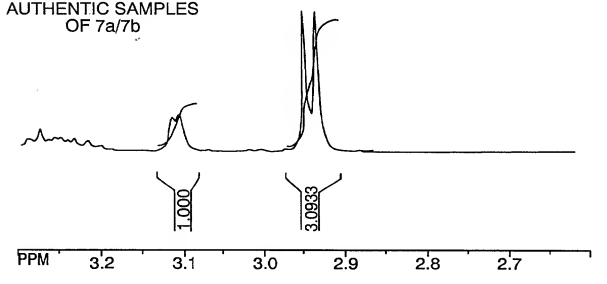


Fig. 15

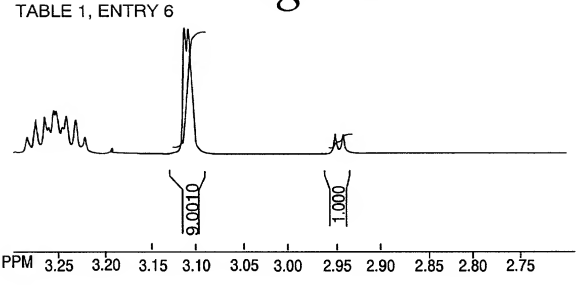


Fig. 16

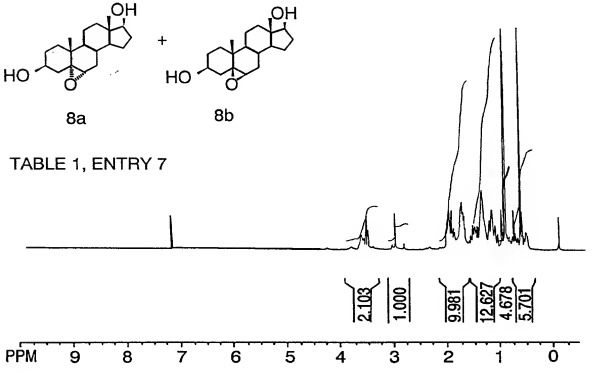


Fig. 17

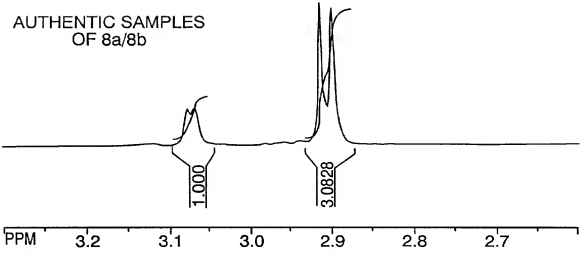


Fig. 18

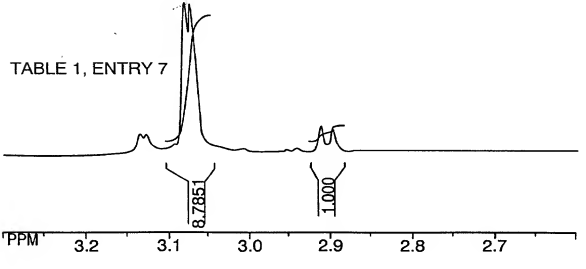


Fig. 19

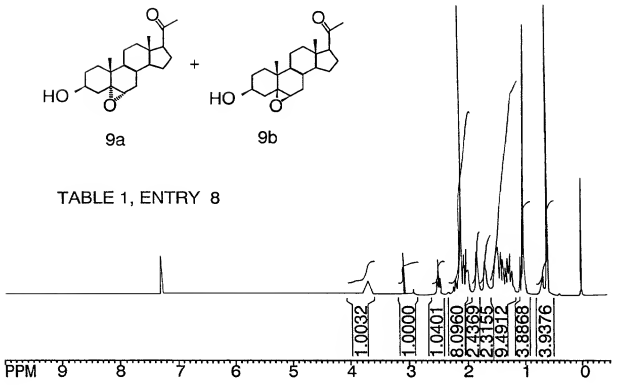


Fig. 20

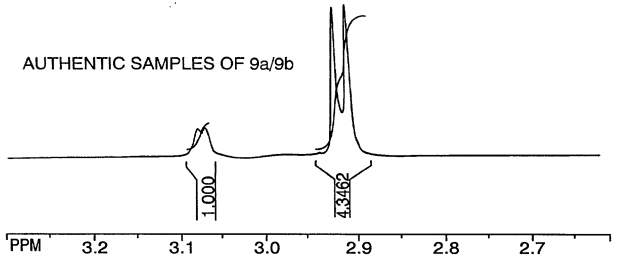


Fig. 21

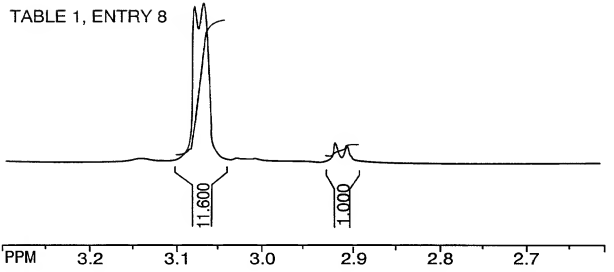


Fig. 22

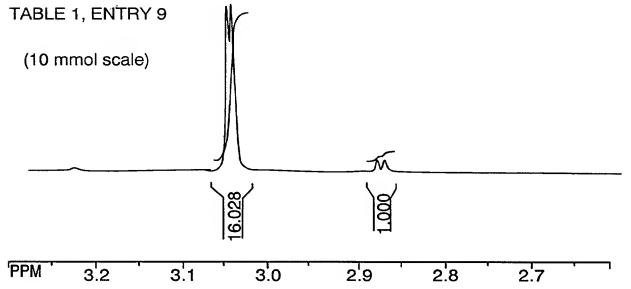


Fig. 23

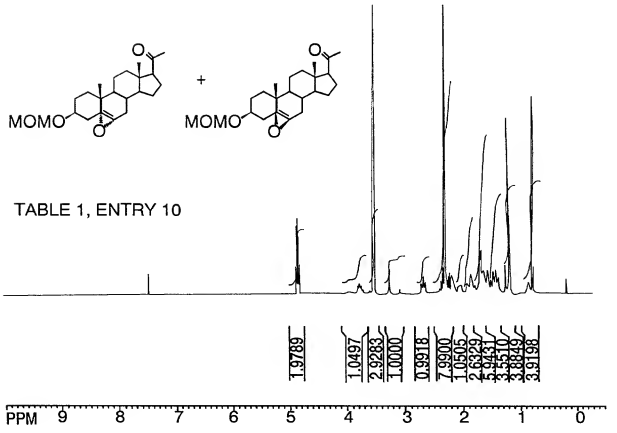


Fig. 24

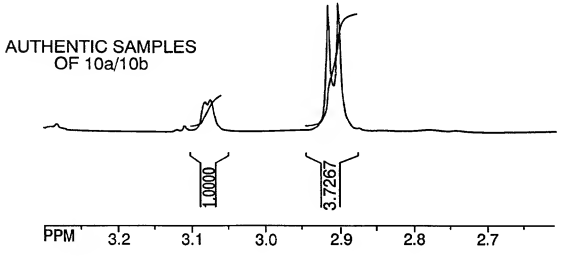


Fig. 25

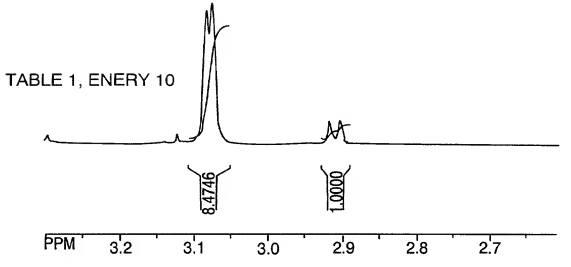


Fig. 26

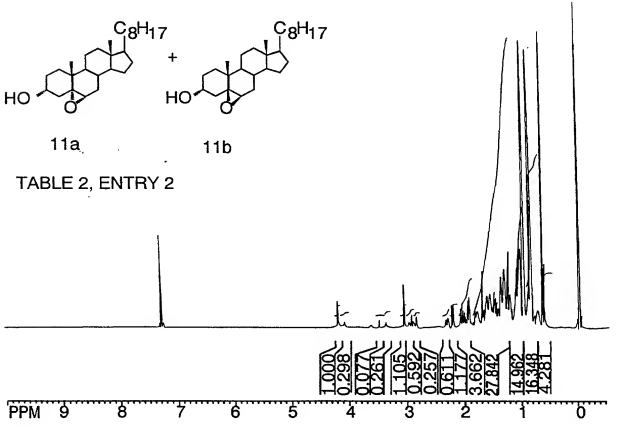


Fig. 27

AUTHENTIC SAMPLES
OF 11a/11b

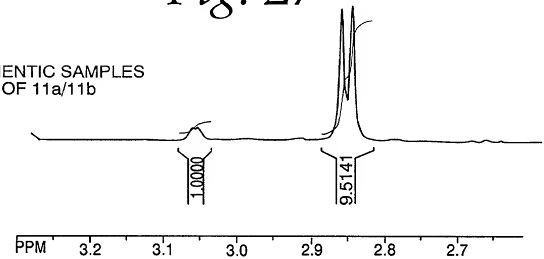


Fig. 28

TABLE 2, ENTRY 1

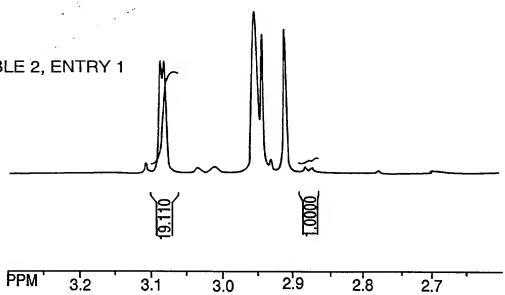


Fig. 29

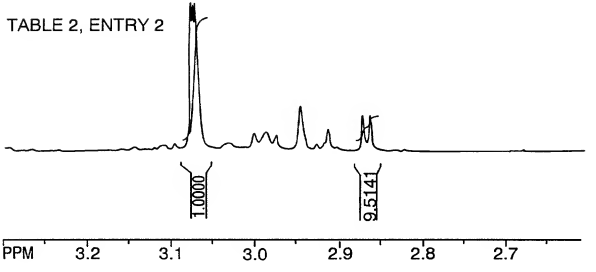


TABLE 2, ENTRY 2
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9.5141
PPM
3.2
3.1
3.0
2.9
2.8
2.7

Fig. 30

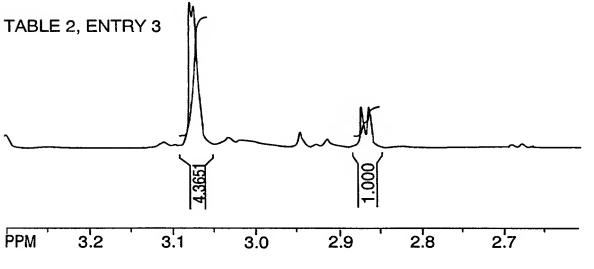


TABLE 2, ENTRY 3
4.3651
1.000
PPM
3.2
3.1
3.0
2.9
2.8
2.7

Fig. 31

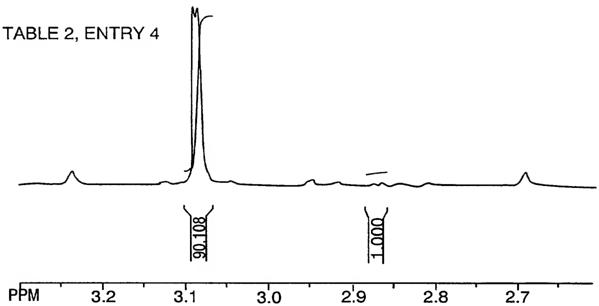


TABLE 2, ENTRY 4
90.108
1.000
PPM
3.2
3.1
3.0
2.9
2.8
2.7

Fig. 32

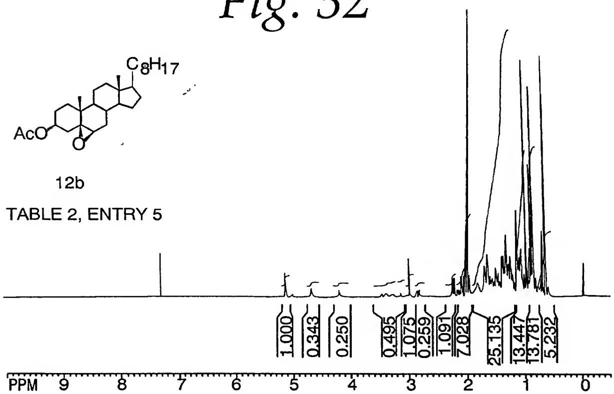

C8H17
AcO
O
12b
TABLE 2, ENTRY 5
1.000
0.343
0.250
0.495
1.075
0.259
1.091
7.028
25.135
13.447
13.781
5.232
PPM
9
8
7
6
5
4
3
2
1
0

Fig. 33

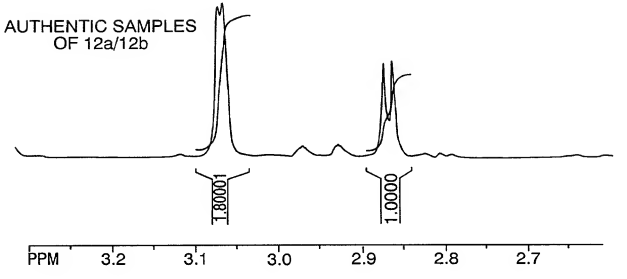


Fig. 34

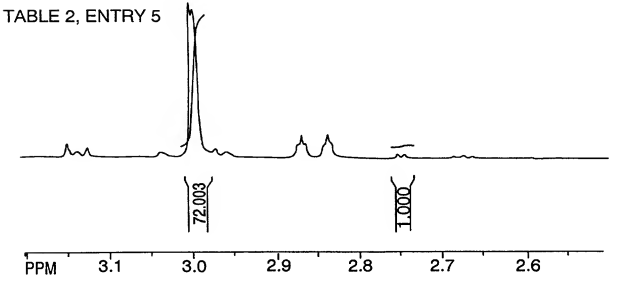


Fig. 35

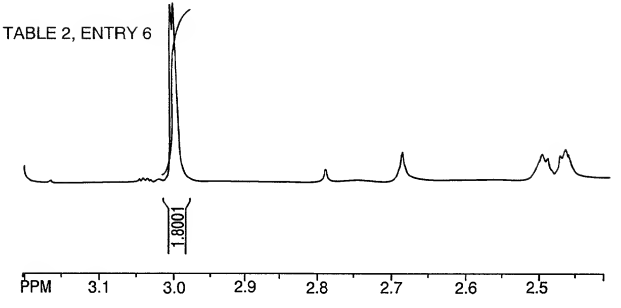


Fig. 36

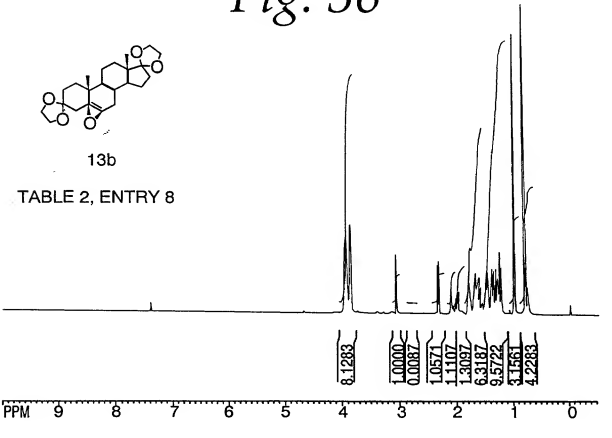


Fig. 37

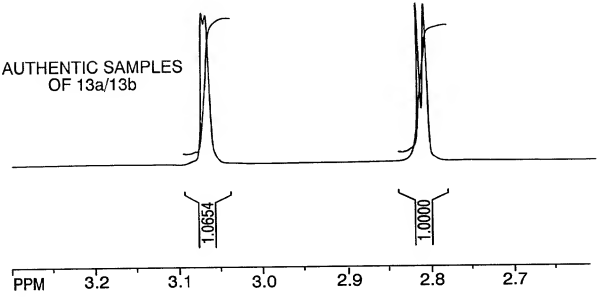


Fig. 38

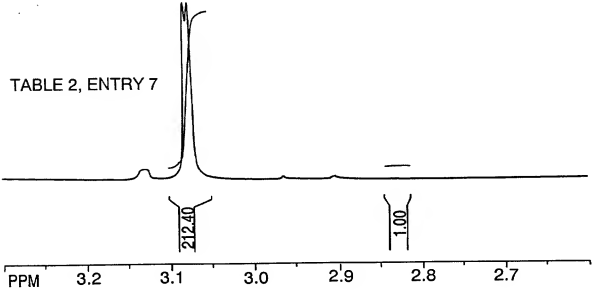


Fig. 39

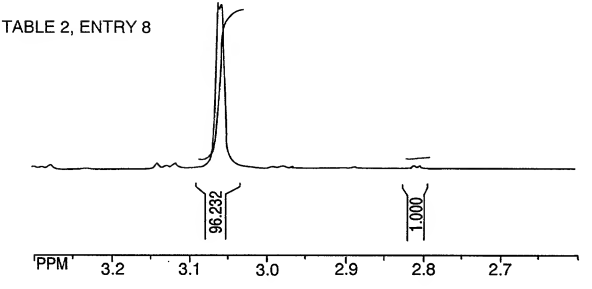


Fig. 40

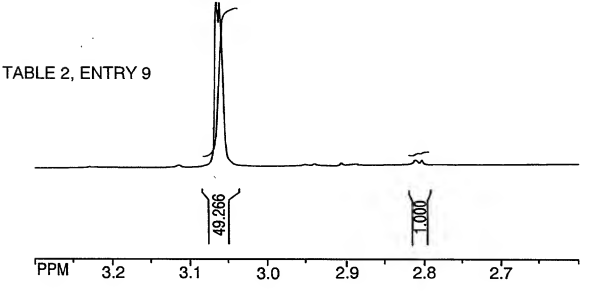


Fig. 41

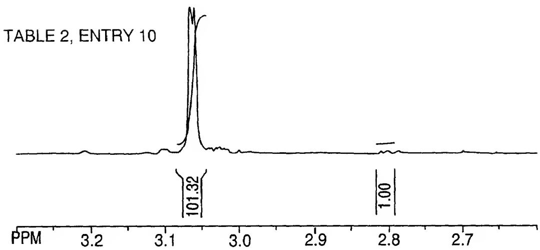


TABLE 2, ENTRY 10
101.32
1.00
PPM
3.2
3.1
3.0
2.9
2.8
2.7

Fig. 42

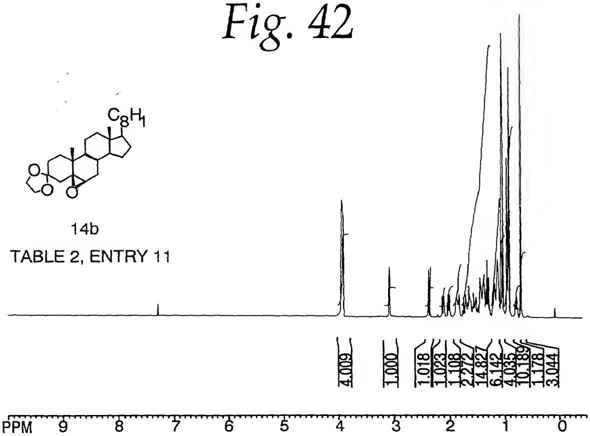

C_8H_{17}
14b
TABLE 2, ENTRY 11
4.009
1.000
1.018
1.023
1.108
2.272
14.827
6.142
4.035
10.189
1.178
3.044
PPM
9
8
7
6
5
4
3
2
1
0

Fig. 43

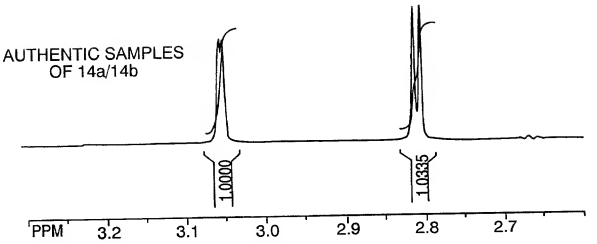


Fig. 44

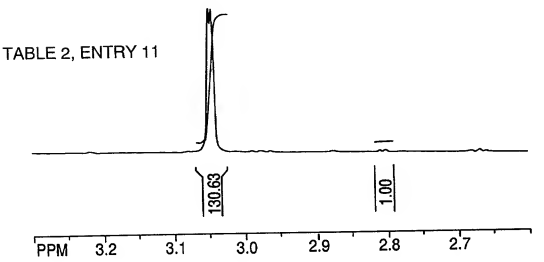


Fig. 45

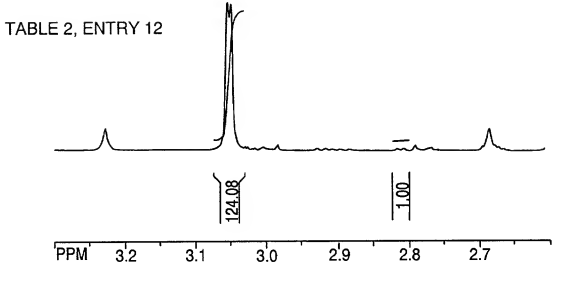


Fig. 46

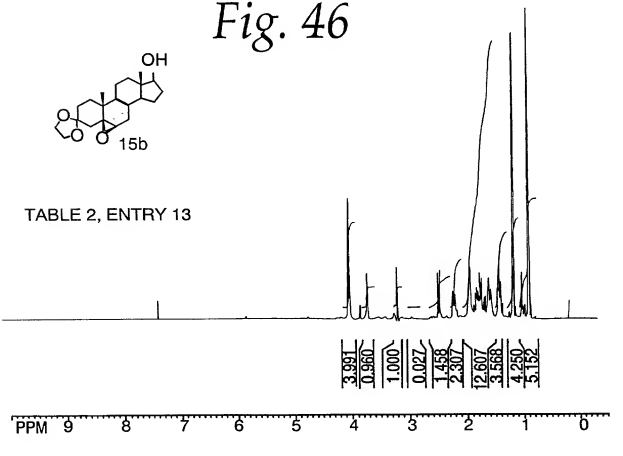


Fig. 47

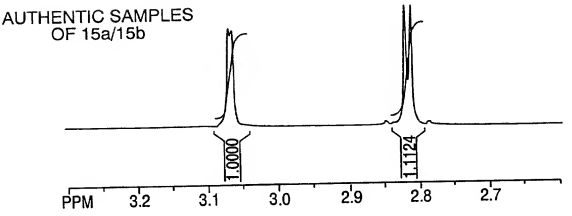


Fig. 48

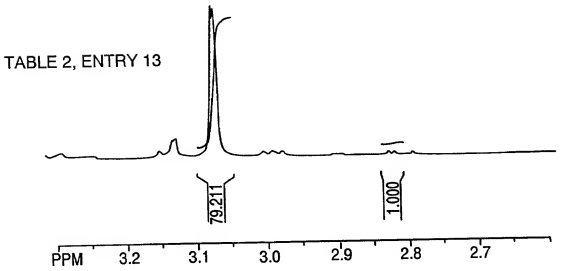


Fig. 49

TABLE 2, ENTRY 14

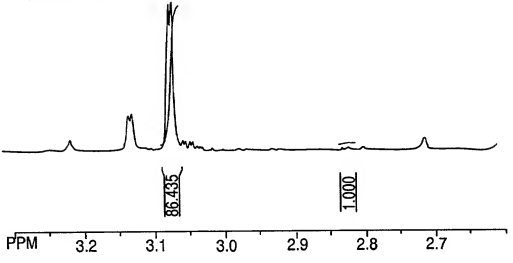


Fig. 50

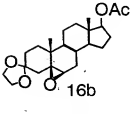


TABLE 2, ENTRY 13

Fig. 51

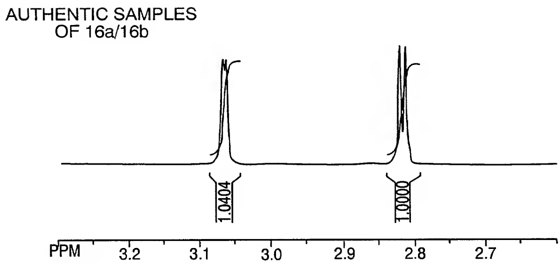

AUTHENTIC SAMPLES
OF 16a/16b
1.0404
1.0000
PPM
3.2
3.1
3.0
2.9
2.8
2.7

Fig. 52

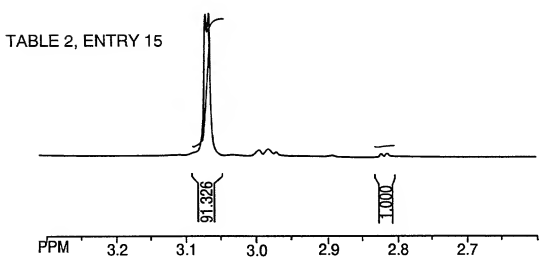


TABLE 2, ENTRY 15
91.326
1.000
PPM
3.2
3.1
3.0
2.9
2.8
2.7

Fig. 53

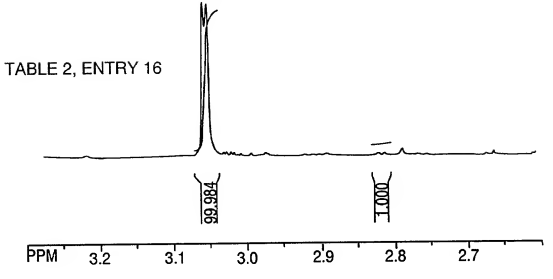


Fig. 54

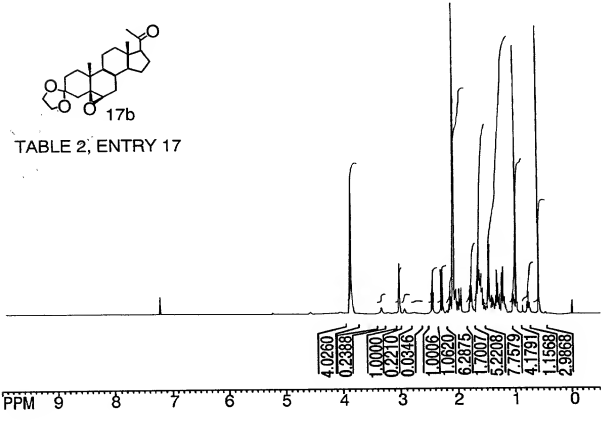


Fig. 55

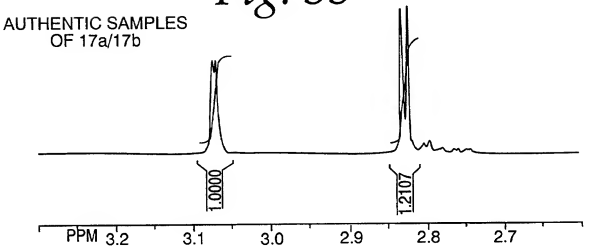


Fig. 56

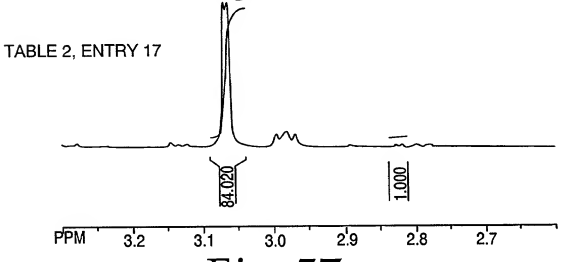


Fig. 57

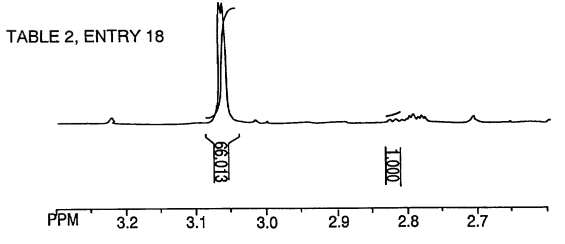


Fig. 58

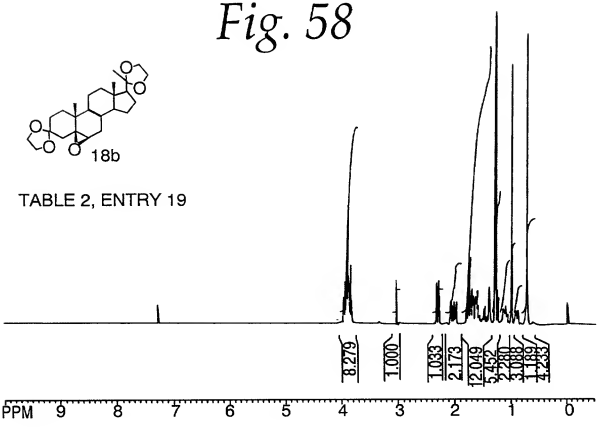


Fig. 59

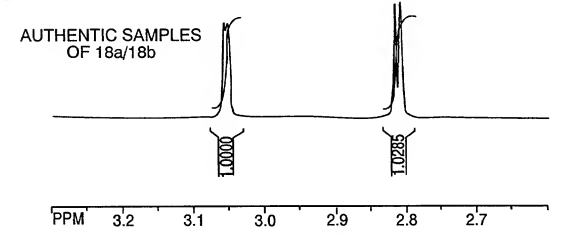


Fig. 60

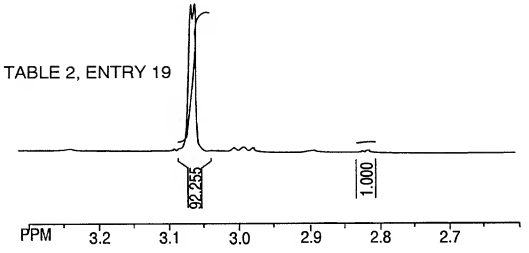


Fig. 61

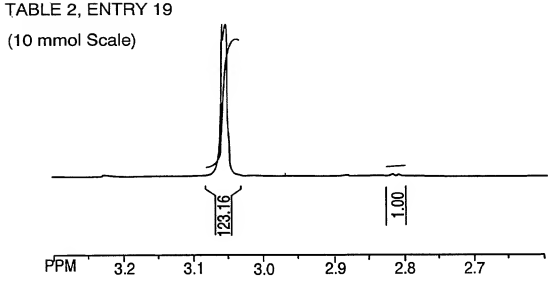


Fig. 62

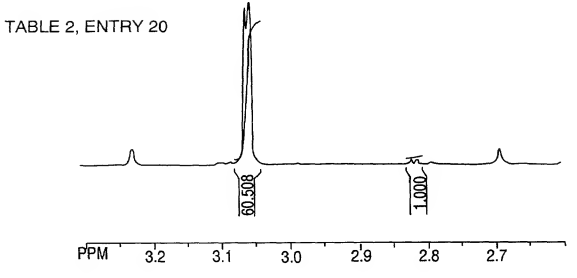


TABLE 2, ENTRY 20
60.508
1.000
PPM
3.2
3.1
3.0
2.9
2.8
2.7

Fig. 63

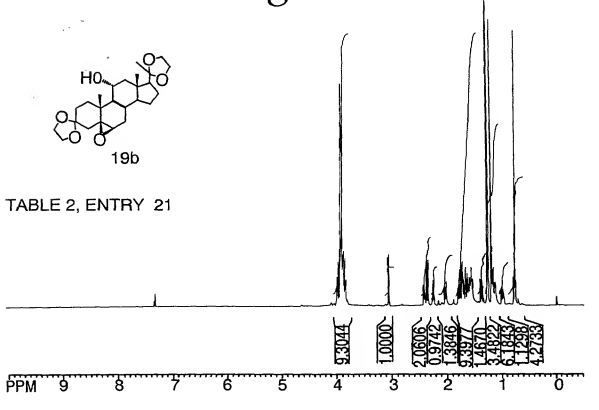

HO
19b
TABLE 2, ENTRY 21
9.3044
1.0000
2.0606
0.9742
1.3846
3.4371
1.4670
3.4924
0.1943
0.1428
4.2739
PPM
9
8
7
6
5
4
3
2
1
0

Fig. 64

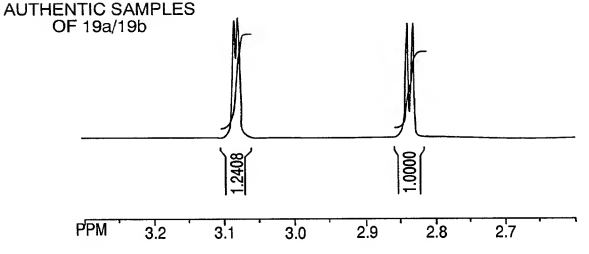


Fig. 65

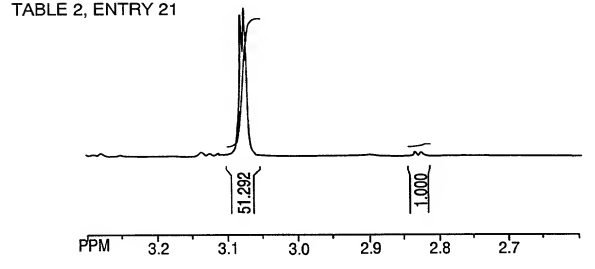


Fig. 66

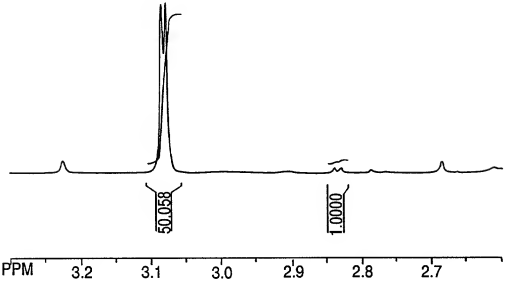
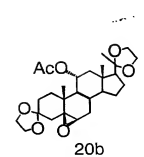


Fig. 67



20b

TABLE 2, ENTRY 23

Fig. 68

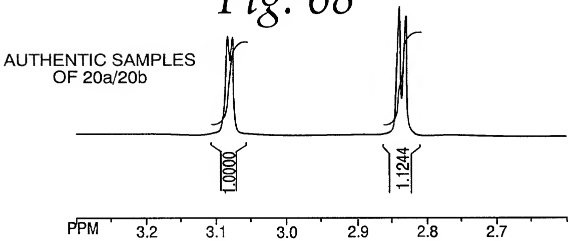


Fig. 69

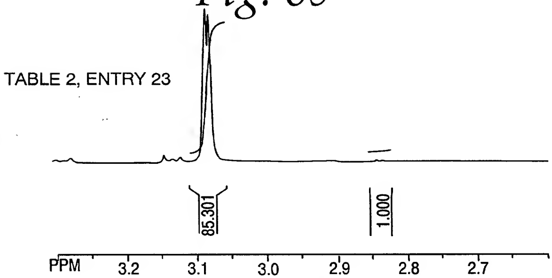


Fig. 70